

**Gates & Cooper<sub>LLP</sub>**Howard Hughes Center  
6701 Center Drive West, Suite 1050  
Los Angeles, California 90045**RECEIVED  
CENTRAL FAX CENTER****JAN 27 2005****FAX TRANSMISSION TO USPTO**TO: Commissioner for Patents  
Attn: Examiner Not yet assigned  
Patent Examining Corps  
Facsimile Center  
Alexandria, VA 22313-1450FROM: George H. Gates  
OUR REF.: G&C 122.45-US-U1  
TELEPHONE: (310) 642-4146Total pages, including cover letter: 65**PTO FAX NUMBER: (703) 872-9306**

If you do NOT receive all of the pages, please telephone us at (310) 641-8797, or fax us at (310) 641-8798.

Title of Document Transmitted:	<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT, FORM PTO-1449, AND CITED REFERENCES</b>
Applicants:	Torsten Wipiejewski et al.
Serial No.:	10/723,976
Filed:	November 26, 2003
Group Art Unit:	2883
Title:	<b>PHOTONIC DEVICE WITH SEGMENTED ABSORPTION DESIGN</b>
Our Ref. No.:	G&C 122.45-US-U1

Please charge all fees to Deposit Account No. 50-0494 of Gates &amp; Cooper LLP.

By: GHGName: George H. Gates  
Reg. No.: 33,500

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on the date shown below.

Signature GHGDate 1/27/05

GHG/sjm

G&amp;C 122.45-US-U1

Confirmation No.: 9501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Torsten Wipiejewski et al.	Examiner:	Not yet assigned
Serial No.:	10/723,976	Group Art Unit:	2883
Filed:	November 26, 2003	Docket:	G&C 122.45-US-U1
Title:	PHOTONIC DEVICE WITH SEGMENTED ABSORPTION DESIGN		

**CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8**

I hereby certify that this correspondence is being filed via facsimile transmission to the U.S. Patent and Trademark Office on January 27, 2005.

By:   
Name: George H. Gates

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

We are transmitting herewith the attached:

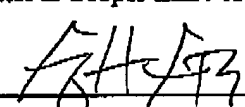
- ☒ Transmittal sheet, in duplicate, containing a Certificate of Mailing or Transmission under 37 CFR 1.8.
- ☒ Supplemental Information Disclosure Statement and Form PTO-1449.
- ☒ Cited Reference(s).

Please consider this a **PETITION FOR EXTENSION OF TIME** for a sufficient number of months to enter these papers, if appropriate.

Please charge all fees to Deposit Account No. 50-0494 of Gates & Cooper LLP. A duplicate of this paper is enclosed.

Customer Number 22462GATES & COOPER LLP

Howard Hughes Center  
6701 Center Drive West, Suite 1050  
Los Angeles, CA 90045  
(310) 641-8797

By:   
Name: George H. Gates  
Reg. No.: 33,500  
GHG/sjm

G&amp;C 122.45-US-U1

Confirmation No.: 9501

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Torsten Wipiejewski et al. Examiner: Not yet assigned  
Serial No.: 10/723,976 Group Art Unit: 2883  
Filed: November 26, 2003 Docket: G&C 122.45-US-U1  
Title: PHOTONIC DEVICE WITH SEGMENTED ABSORPTION DESIGN

**CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8**

I hereby certify that this correspondence is being filed via facsimile transmission to the U.S. Patent and Trademark Office on January 27, 2005.

By: [Signature]  
Name: George H. Gates

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

We are transmitting herewith the attached:

- ☒ Transmittal sheet, in duplicate, containing a Certificate of Mailing or Transmission under 37 CFR 1.8.
- ☒ Supplemental Information Disclosure Statement and Form PTO-1449.
- ☒ Cited Reference(s).

Please consider this a **PETITION FOR EXTENSION OF TIME** for a sufficient number of months to enter these papers, if appropriate.

Please charge all fees to Deposit Account No. 50-0494 of Gates & Cooper LLP. A duplicate of this paper is enclosed.

Customer Number 22462  
GATES & COOPER LLP  
Howard Hughes Center  
6701 Center Drive West, Suite 1050  
Los Angeles, CA 90045  
(310) 641-8797

By: [Signature]  
Name: George H. Gates  
Reg. No.: 33,500  
GHG/sjm

G&amp;C 122.45-US-U1

JAN 27 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Torsten Wipiejewski et al. Examiner: Not yet assigned  
Serial No.: 10/723,976 Group Art Unit: 2883  
Filed: November 26, 2003 Docket: G&C 122.45-US-U1  
Title: PHOTONIC DEVICE WITH SEGMENTED ABSORPTION DESIGN

CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8

I hereby certify that this correspondence is being filed via facsimile transmission to the U.S. Patent and Trademark Office on January 27, 2005.

By: 

Name: George H. Gates

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (37 C.F.R. §1.97(b))

MAIL STOP AMENDMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

This statement should be considered because it is submitted before the mailing date of a first Office Action on-the-merits. Accordingly, no fee is due for consideration of the items listed on the enclosed Form 1449.

In accordance with 37 C.F.R. §1.98(a)(2), a copy of each foreign patent document and each non-patent document listed on the enclosed Form 1449 is provided.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art". Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

Please direct any response or inquiry to the below-signed attorney at (310) 641-8797.

Respectfully submitted,

GATES & COOPER LLP  
Attorneys for Applicant(s)

Howard Hughes Center  
6701 Center Drive West, Suite 1050  
Los Angeles, California 90045  
(310) 641-8797

Date: January 27, 2005

GHG/sjm

By: 

George H. Gates

Reg. No.: 33,500

Date Faxed: January 27, 2005

Sheet 1 of 1

Form 1449*	Docket Number: G&C 122.45-US-U1	Application Number: 10/723,976
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION	Applicants: Torsten Wipiejewski et al.	
	Filing Date: November 26, 2003	Group Art Unit: 2883

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
NON-PATENT DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
			Aimez, V., et al., "Low-energy ion-implantation-induced quantum-well intermixing," IEEE Journal of Selected Topics in Quantum Electronics, 8:870-879, 2002			
			Allard, M., et al., "Temperature determination in optoelectronic waveguide modulators," Journal of Lightwave Technology, 18:813-818, 2000			
			Bian, Z., et al., "High-power operation of electro-absorption modulators," Applied Physics Letters, 83:3605-3607, 2003			
			Claassen, M., et al., "Two-section electro-absorption modulator with negative chirp at low insertion loss," Electronics Lett., 32:2121-2122, 1996			
			Hamoudi, A., et al., "Controlled disordering of compressively strained InGaAsP multiple quantum wells under SiO <sub>2</sub> /P encapsulant and application to laser-modulator integration," Journal of Applied Physics, 78:5638-5641, 1995			
			Jasmin, S., et al., "Diluted- and distributed- absorption microwave waveguide photodiodes for high efficiency and high power," IEEE Transactions on Microwave Theory and Techniques, 45:1337-1341, 1997			
			Mason, B., et al., "40-Gb/s Tandem Electro-absorption Modulator," IEEE Photon. Techn. Lett., 14:27-29, 2002			
			Murthy, S., et al., "A novel monolithic distributed traveling-wave photodetector with parallel optical feed," IEEE Photonics Technology Letters, 12:681-683, 2000			
			Nespoli, A., et al., "Analysis of failure mechanisms in velocity-matched distributed photodetectors," IEEE Proc. Optoelectron, 146:25-30, 1999			
			Shi, J.-W., et al., "Theory and design of a tapered line distributed photodetector," Journal of Lightwave Technology, 20:1942-1950, 2002			
			Wipiejewski, T., et al., "Improved Performance of Vertical-Cavity Surface-Emitting Laser Diodes with Au-Plated Heat Spreading Layer," Electronics Lett., 31:279-281, 1995			
			Wipiejewski, T., et al., "Monolithic Integration of a Widely Tunable Laser Diode with a High Speed Electro-Absorption Modulator," 52 <sup>nd</sup> ECTC, San Diego, May 2002			

EXAMINER:	DATE CONSIDERED:
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form for next communication to the Applicant.	

\*Substitute Disclosure Statement Form (PTO-1449)

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

G&amp;C 122.45-US-U1